

Exam Date & Time: 15-Jul-2022 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

Manipal Academy of Higher Education, Manipal MPharm Theory End-Semester Examinations.

IMMUNOTECHNOLOGY [PBT-MPB202T-S1]

Marks: 75

Duration: 180 mins.

SECTION - A

Answer all the questions.

Answer the following (10 marks x 5 = 50 marks)

- 1) Discuss the role and mechanism of natural immunity in preventing an infection. (10)
- 2) Describe the structure and function of thymus and a lymph node. (10)
- 3) Differentiate humoral from cell mediated immunity. Elaborate on the different types of T cells. (10)
- 4) Discuss in detail the antigen antibody reactions. How these reactions help in eliminating immunogens from our body? (10)
- 5) Sketch the sequence of events that occurs in generation of malignancy and metastasis. Add a note on common human infectious carcinogens. (10)

SECTION - B

Answer all the questions.

Answer the following (5 marks x 5 = 25 marks)

- 6) Explain briefly the role of B Lymphocytes and T Lymphocytes with respect to adaptive immune system. (5)
- 7) Classify vaccines based on the type of immunogen present in the preparation. Explain the principle involved in DNA vaccines. (5)
- 8) 'The better matched the donor and recipient are, the more successful the transplantation is likely to be'. What are the ways through which a matching donor is found for the recipient? (5)
- 9) Discuss the principle and methodology of selection of hybrid cells using HAT medium. (5)
- 10) Mention the role of standard curve in Radioimmunoassay. Discuss briefly the basic principle involved. (5)

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